(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 February 2005 (03.02.2005)

(10) International Publication Number WO 2005/010793 A2

(51) International Patent Classification⁷:

G06F 19/00

(21) International Application Number:

PCT/IB2004/002399

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/491,045

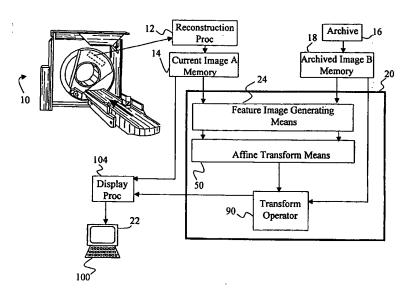
30 July 2003 (30.07.2003)

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: AUTOMATIC REGISTRATION OF INTRA-MODALITY MEDICAL VOLUME IMAGES USING AFFINE TRANS-**FORMATION**



(57) Abstract: A current diagnostic image and an archived diagnostic image of a common region of patient are loaded into a first memory (14) and a second memory (18). The diagnostic images are converted into feature images (24), scaled (40), and normalized (42). An affine transform determining processor (50) generates an affine transform representative of the error between the current and archived images. A transform operator (90) operates on one of the diagnostic images in accordance with the affine transform to bring the two images into registration. A display processor (104) displays corresponding pairs of slices of the registered first and second images on a monitor (22). A stepping processor (102) causes the displayed slice pairs of the registered images to be stepped together in coordination.

Published:

 without international search report and to be republished upon receipt of that report

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